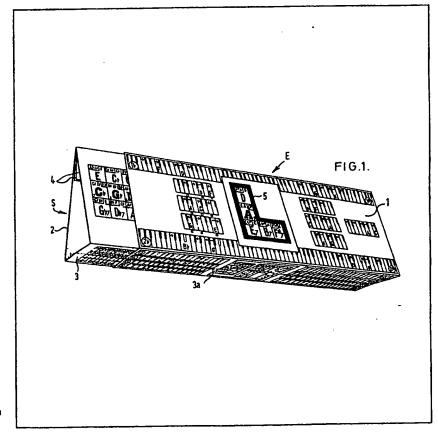
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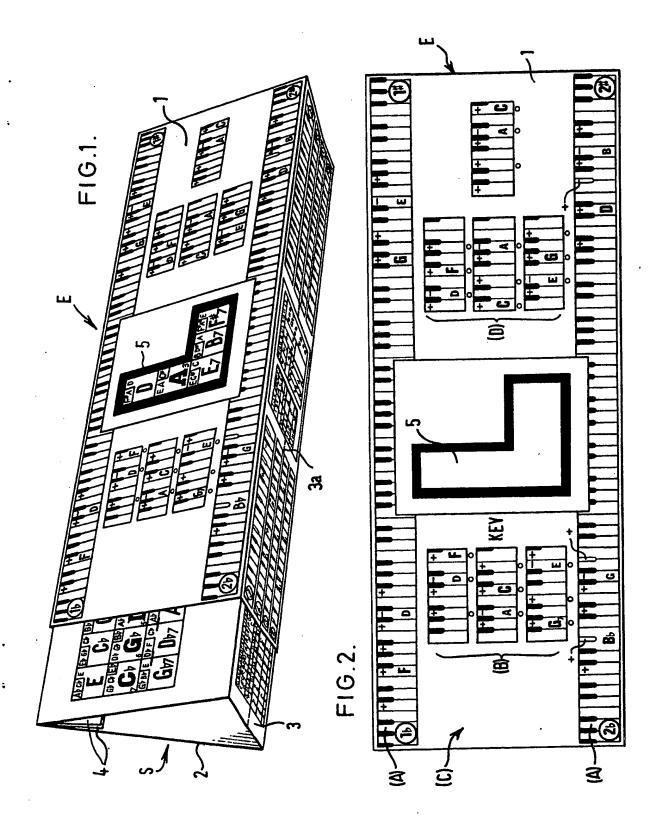
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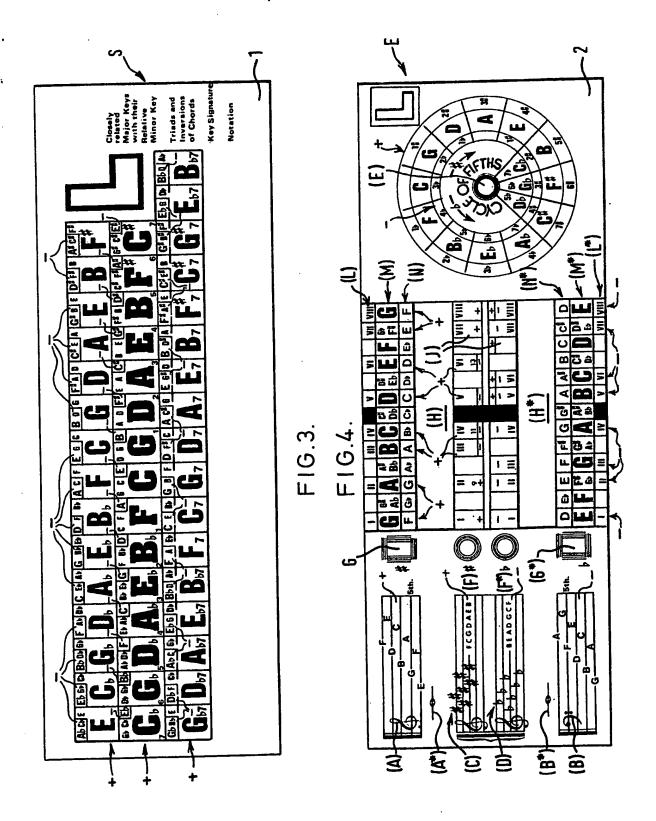
(54) Instructional device of the slide rule type

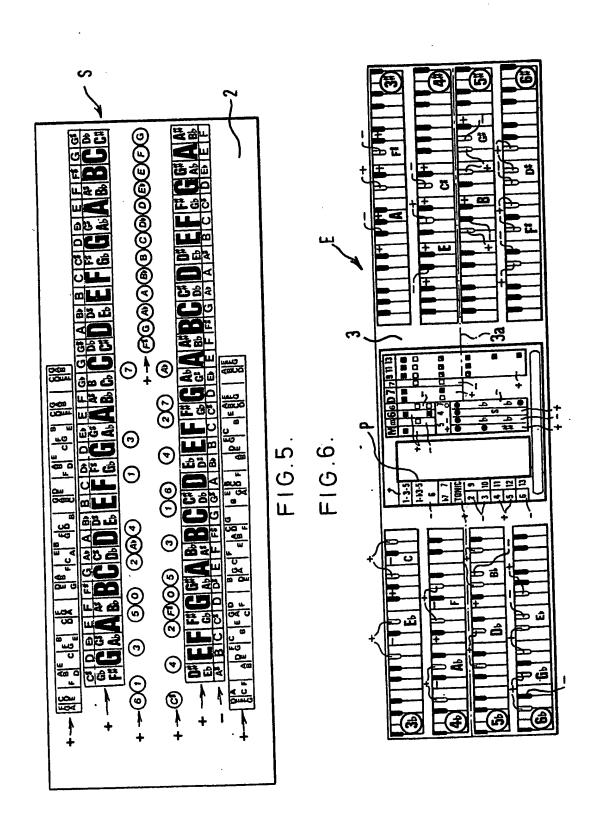
(57) A device of the slide rule type intended for instructional purposes, particularly for instruction in musical theory and practice, comprises an open-ended enclosure having at least one window therein containing a slide bearing information to be displayed through any such window. The device as a whole is collapsible into a flat condition and has at least three sides. Further, the enclosure may be adapted to receive one or more secondary slides which may be capable of being reversibly positioned to display information carried on its respective sides.

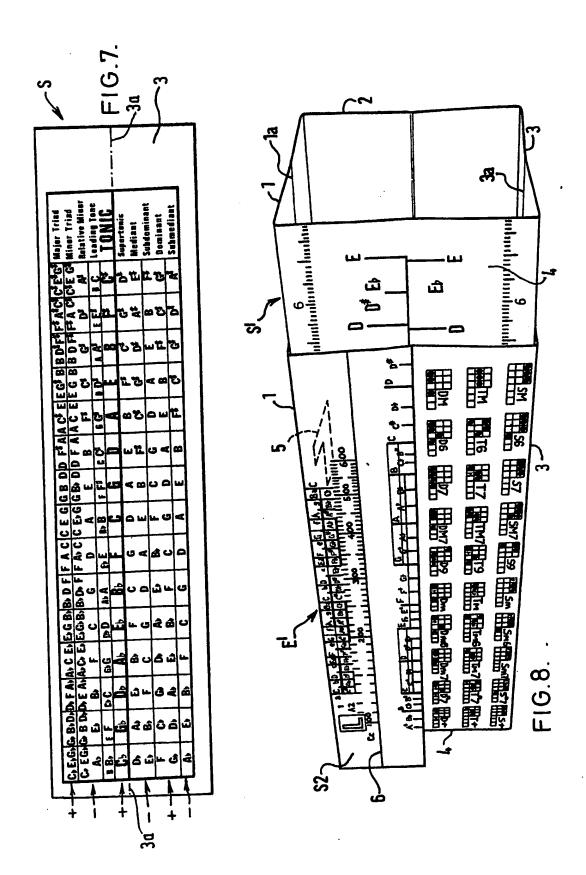


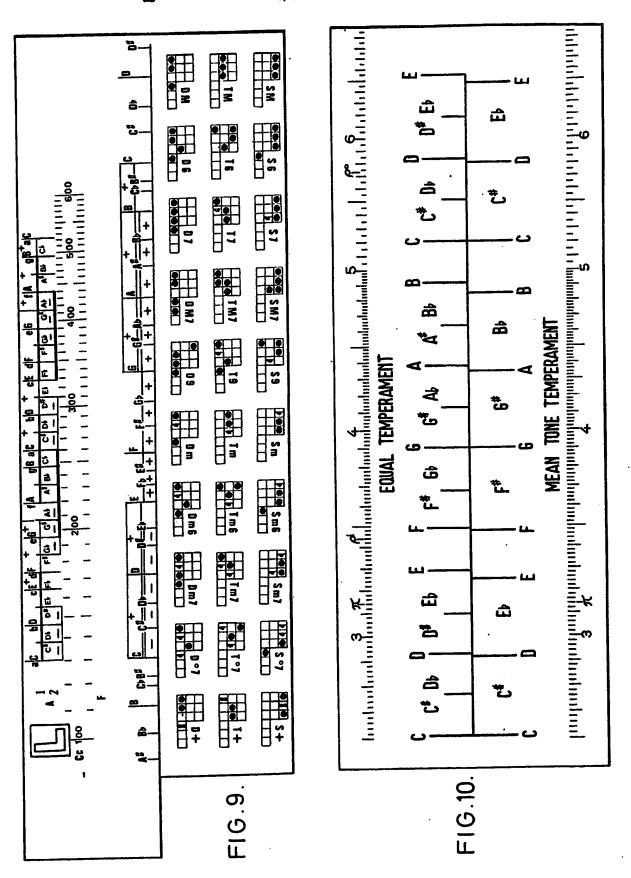
The drawings originally filed were informal and the print here reproduced is taken from a later filed formal copy.









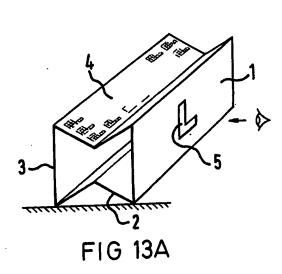


| | | | 1 |
|-------------------------|--|--|-------------|
| Equal Temperament Scale | Diatonic Intervals | Vibration Numbers | |
| ļ | $2 g(c + al0 + blc cl^2 - db + ela + flo gl_c - alo - blc cl^2 + flo gl_c - alo - b$ | 523 494 440 440 392 370 349 330 293 261 247 261 247 261 196 175 165 175 165 175 181 191 | 7 4 8 5 5 8 |
| | | 7] | |

F16 11

| | | • |
|---|-----------------|---|
| 3 + + + + + + + + + + + + + + + + + + + | 日 | |
| 8 | نیا) | + |
| | | 2 |
| | | |

F16.12.



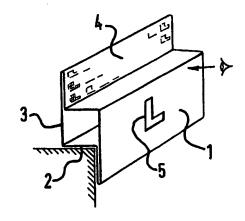
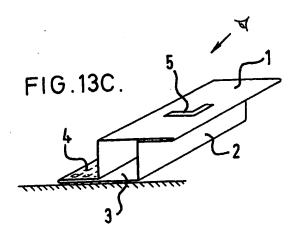


FIG.13B.



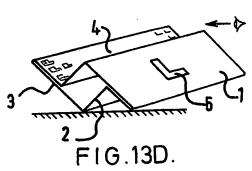


FIG.13E.

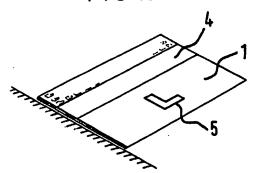
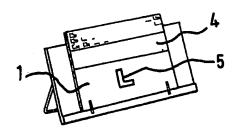


FIG.13F.



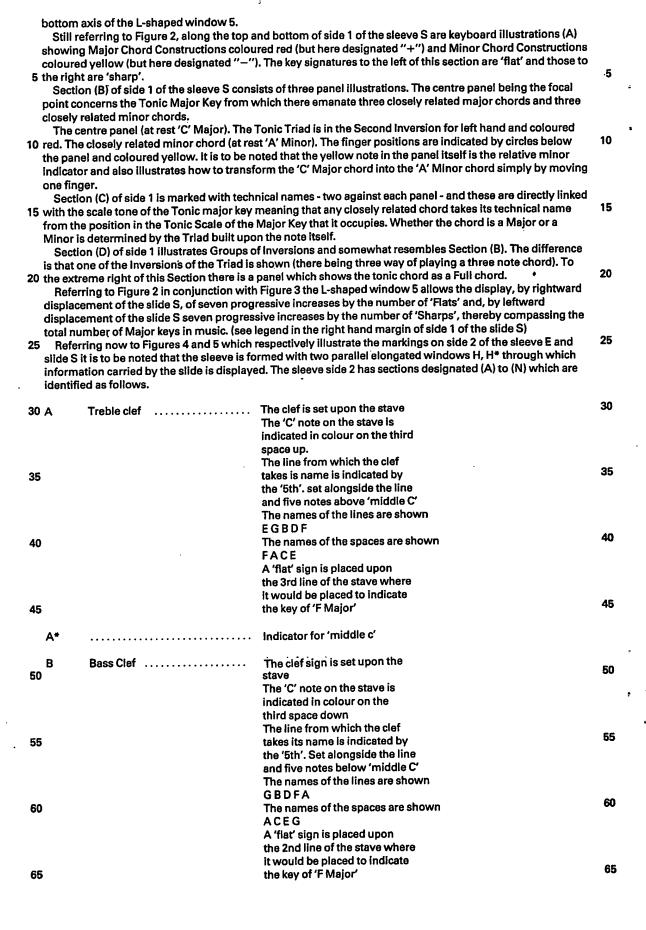
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SPECIFICATION

Instructional device of the slide rule type

5 This invention relates to a device intended for instructional purposes and of the slide rule type, which type 5 comprises an open-ended enclosure or sleeve which contains a slide adapted to display information by exposure through at least one aperture or window formed in the enclosure. The general object of the invention is to provide an instructional device of the character referred to which is of compact form whilst having the facility of displaying or indicating a considerable amount of diverse 10 information depending upon the displacement of the slide relative to the enclosure. 10 In accordance with the invention an instructional device of the type defined is characterised in that each of the open-ended enclosure and the slide therein is a collapsible structure having at least three sides, one or more of such sides of the open-ended enclosure having at least one window through which information carried on the slide is selectively displayed depending upon the position of longitudinal adjustment of the 15 15 slide relative to the enclosure. Preferably the enclosure and the slide are three-sided - that is to say triangular in cross-section - and one of the sides is foldable longitudinally in the manner of a gusset so that the structure can be collapsed into a substantially flat condition. Alternatively the enclosure and the slide could for example be four sided - that is to say rectangular in cross-section - two opposite sides each foldable longitudinally, thereby constituting two 20 20 gussets, so that the structure can be collapsed into a flat condition as aforesaid. When so formed the device can be folded into alternative configurations to display required information to best advantage when supported on flat or sloping surfaces. The windows may be of any desired shape and may be elongated or of L-shape, and extend longitudinally and/or transversely of the panels in which they are formed. The slide will normally be provided with means to be gripped by the operator's fingers to facilitate its 25 movement within the enclosure and such means may conveniently be at least one wing-like extension directed internally of the structure. A practical application of an instructional device in accordance with the invention, is a guide to the playing of a musical instrument or musical education device and two embodiments of such a device are illustrated in 30 30 the accompanying drawings, in which:-Figure 1 is a perspective view of a first embodiment of the device shown in a fully-erected state with its slide partly withdrawn from its enclosure or sleeve; Figure 2 is a detail of side 1 of the sleeve; Figure 3 is a detail of side 1 of the slide; 35 Figure 4 is a detail of side 2 of the sleeve; Figure 5 is a detail of side 2 of the slide; Figure 6 is a detail of side 3 of the sleeve; Figure 7 is a detail of side 3 of the slide; Figure 8 is a perspective view of a second embodiment of the device shown in an erected state with its 40 40 slide partly withdrawn from its enclosure or sleeve; Figure 9 is a detail of side 4 of the sleeve of the device shown in figure 8; Figure 10 is a detail of side 4 of the slide of the device shown in Figure 8; Figure 11 shows the front side of a secondary slide of the device shown in Figure 8; Figure 12 shows the reverse side of this secondary slide; and Figures 13A, 13B, 13C, 13D, 13E and 13F illustrate some alternative folded configurations of the device 45 shown in Figure 8. The two embodiments of the device illustrated in the drawings are intended to provide all the basic technical information with which it is possible to learn and understand the theory and practice of music and also embodies a system for learning the use of chords from simple triads to compound chords. 50 Referring now to Figure 1 the three-sided or triangular form of device therein shown is made of thin sheet material such as cardboard and comprises a three-sided open-ended outer enclosure or sleeve E and a three-sided slide S which is snugly received therein and slidable to different positions relative thereto. The triangular form is isosceles, the two sides 1 and 2 being of equal area whilst the base side 3 is of lesser extent. The base side 3 has a central longitudinal fold line 3a and acts as a gusset to allow the device to be 55 55 collapsed into a substantially flat condition. An outer protective sleeve or wrapper (not illustrated) will normally be provided to fit around the collapsed device for storage or transit purposes. The slide S has an open corner with a pair of inwardly extending wings 4 which are intended to be gripped by the operator's fingers to enable the slide S to be moved readily to different positions relative to the sleeve 60 The markings and windows provided on the three sides of the sleeve E and slide S respectively are described below by reference to the relevant Figures of the accompanying drawings. Figure 2 shows that side 1 of the sleeve E has in its central part an L-shaped window 5 through which may be viewed, on side 1 of the slide S (Figure 3) the primary information concerning the closely related triads of the tonic major key and the submediant minor triads musically known as the 'relative minor of the major

65 key'. The secondary information concerns the two Dominant Seventh triads which are to the right of the



| В* | | Indicator for 'middle C' | |
|----------|-------------------------------------|--|----|
| С | Sharps | The seven sharps used in key | |
| C | Silaips | signatures are set in their | |
| 5 | | respective positions on the | 5 |
| | • | stave. Alongside are the names | |
| | | for the sharps in sequence F C G D A E B | |
| | | | |
| 10 D | Flats | The seven flats used in key signatures are set in their | 10 |
| | | respective positions on the stave. | |
| | | Alongside are the names for the | |
| | | flats in sequence BEADGCF | |
| 15 | | The state of the s | 15 |
| E | Setting indicator | The note showing in the indicator is that which indicates the tonic | |
| | | Major scale displayed in the | |
| | | octave scale aperture | |
| 20 | | | 20 |
| F | Sharp indicator | Where the key signature is | |
| | | determined by sharps the actual | |
| | | number of sharps is displayed in this window | ` |
| 25 | | in this whites | 25 |
| F* | Flat Indicator | Where the key signature is | |
| | | determined by flats the actual | |
| | | number of flats is displayed in this window | |
| 30 | | III (IIIS WIIIGOW | 30 |
| G | Accidentals Major | Notes of the octave scale required | |
| | | to be written or played either | |
| | | sharp or flat in accordance with the key signature are displayed | |
| 35 | | in this window in either or both columns. | 35 |
| 33 | | to the left from top to bottom | |
| | | are positions 1 to 4 and to the | |
| | | right from top to bottom are | |
| 40 | | positions 5 to 7 | 40 |
| 40 G* | Accidentals Minor | Notes of the octave scale required | |
| G | Accidentals willo | to be written or played either | |
| | | sharp or flat in accordance with | |
| | | the key signature are displayed | 45 |
| 45 | | in this window in similar manner to that outlined above | 40 |
| | | to that outlined above | |
| н | Scale window | | |
| | Major | The notes showing in the scale | 50 |
| 50 | | aperture are the semitonal intervals of the octave set, also in small | • |
| | | case letters are displayed the | |
| | | dominants of the corresponding | |
| | | notes of the tonic series. | ce |
| 55 | | | 65 |
| H* | Scale window for the Relative Minor | In similar manner to that described | |
| | rie ueignae Milloi | above are displayed the notes | |
| | | of the Relative Minor Scale to the | |
| 60 | | Tonic Major Scale set in the upper | 80 |
| | | aperture, also displayed are the | |
| | | dominants of the notes in the relative minor scale. | |
| | | I CIONA O MINION SCORE. | |

| • | j | Tetrachords and intervals of scale | The bottom and top tetrachords are indicated centrally in this | |
|----|----|---|---|----|
| 5 | | together with identification of Harmonic and Melodic Minor Scales | section, these being the 1 and 1V and the V1 to V111 INTERVALS of the octave scale. The differences between the semitonal intervals | 5 |
| | | | of the major scale and the minor scale are readily identified. On the major 1 to V111 are indicated | |
| 10 | | | the 9th 11th and 13th intervals needed when considering compound chords. | 10 |
| 15 | | | Identification of the Harmonic Minor Scale is by way of the V11 or as it is technically known the leading note. As the minor | 15 |
| 20 | | | scale uses the same key signature as its relative Major Key the ascending and decending scale of the minor scale will have | 20 |
| | | | according to the Key signature one more flat or one more sharp as the case may be than the sharps or flats of the key signature. | |
| 25 | | | Harmonic Minor scales therefore may be read directly from the rule. | 25 |
| 30 | • | | Melodic Minor scales require that the second tetrachord be modified when ascending in the manner of a major tetrachord | 30 |
| 35 | | | therefore the V1 note will be read not according to the minor interval of scale but according to the major interval of scale. | 35 |
| | | | When ascending the top tetrachord of the minor scale requires the use of the V1 V 1V 111 intervals of its relative major scale and | |
| 40 | | • | this modification is picked out on the central indicators of the major and minor scales to | 40 |
| | | | draw the attention of the user to these notes. | |
| 45 | L | MAJOR intervals | The major octave scale intervals | 45 |
| | L* | MINOR intervals | The minor intervlas of scale | |
| 50 | М | Transposer | This scale is set to read as the Dominant when the slide is in the central position | 50 |
| 55 | M* | Transposer | This scale is set to read as the Mediant when the slide is in the central position | 55 |
| 60 | N | Transposer | This scale is set to read as the Subdominant when the slide is in the central position | 60 |

| | N* Transposer | This scale is set in the supertonic | |
|----|--|--|----|
| • | 4 Hanspoor | when in the central position | |
| | | special note 1: Mand N in the | |
| | | central position are in conjunction | |
| 5 | | with tonic Major read off directly | 5 |
| 5 | · . | at any point of the rule thereby | |
| | | presenting without further | |
| | | movement the three Perfect closely | |
| | | related chords used with every | |
| | | major key. This also applies to | 10 |
| 10 | | all minor keys but a similar | |
| | | set of scales have been provided | |
| | | at M* and N* to coincide with | |
| | | the relative minor scale. the | |
| | | overall effect of setting the | 15 |
| 15 | | rule out in this manner is that | .0 |
| | | with the rule in the central | |
| | | | |
| | | position i.e. 'C' Major, the | |
| | • | six closely related keys, chords | 20 |
| 20 | • | or notes of that key which is | 20 |
| | | to say also the tonic key and | |
| | | the key one sharp greater and | |
| | | one flat lesser than the tonic | |
| | | key and their relative minors, | 25 |
| 25 | | are readily in sight from M | 20 |
| | | down through to M* | |
| | | Transposition can be achieved | |
| | | generally from one key to | |
| | | another by utilizing any pair | 30 |
| 30 | | from the eight complete semitone | 30 |
| | | scales and should it be necessary | |
| | | to transpose from any other setting | |
| | | then it will be seen that at all | |
| | | times the relative minor and | 35 |
| 35 | | the dominants travel in constant | 35 |
| | | alignment and relativity. | |
| | | | |
| | The Cycle of Fifths | The cycle of fifths is presented | |
| | | in a completely original form | 40 |
| 40 | | progressing as it does clockwise | 40 |
| | | from 'C' this illustration carries | |
| | | to the outside the Major key | |
| | | signatures and to the inside the | |
| | | corresponding Minor key signatures. | 45 |
| 45 | | When read in an anti clockwise | 73 |
| | | direction it becomes the cycle | |
| | | of fourths and on reaching the | |
| | | fourth flat transfers to the inner | |
| | | group of major key signatures. | 50 |
| 50 | | | 50 |
| | | | |
| | Referring now to Figures 6 and 7 which | respectively illustrate the markings on side 3 - that is to say the | |
| | guesat or base side - of the sleeve F and s | lide S respectively it is to be noted that the sleeve side 3 is formed | |
| | centrally with an elongated window P ext | ending transversely thereof for exposing information on side 3 of | 55 |
| 55 | the slide. The sections of sleeve side 3 (Fi | gure 6) are identified as follows: | 55 |
| | | | |
| | Left hand panel | Here is a continuation of the | |
| | | progressive series of keyboard | |
| | | illustrations for major keys | 60 |
| 60 | | having flat signatures. | - |
| | | | |
| | Right hand panel | Here is a continuation of the | |
| | - | progressive series of keyboard | |
| | | illustrations for major keys | 65 |
| 65 | | having sharp signatures | 99 |
| | | | |

| | | | | • | |
|----|----------|--------|------------|--|----|
| С | entre pa | anel | 1-3-5 | appearing beside the window p this introduces the notes of the major triad | |
| 5 | u | | 1-flat3-5 | This introduces the notes of the minor triad | 5 |
| | n | н | 6 | This introduces the sixth note of the octave in the major scale | 10 |
| 10 | n | n | flat7-7 | Here is the dominant seventh (flat 7) and the major seventh (7) | |
| 15 | " | H | TONIC | This indicates either the last note of one octave of scale or it can be used as the beginning | 16 |
| 20 | | | | of one octave of scale to be read with the succeeding notes in the column giving the 2nd 3rd 4th 5th and 6th notes and then reading the | 20 |
| 20 | | | | 7th notes of the octave at flat 7-7 above the Tonic or it may be used as the 8th note of the octave | |
| 25 | | | . · | when reading compound chord constructions. | 25 |
| | n | n | +5-47 | This group of columns is for analysis or construction of the following chords +5 (augmented | |
| 30 | | | | 5th) -5 (diminished 5th) 4(suspended fourth) o7 (diminished 7th) | 30 |
| | | | /m6 D7 | This group of columns is used | |
| 35 | 9 11 13 | •••• | | for the analysis or con- struction of chords having either a base with Major | 35 |
| | | | | Triad or a base with Minor Triad where the former follow | |
| 40 | | | | the illustrations having blocked in squares and the latter follow the open squares | 40 |
| | | | | then there are those chords which have a base with Major | |
| 45 | | | | triad and require certain intervals to have flattened notes; these will be treated | 45 |
| | | | · | in detall if and when required. This is extremely original | |
| 50 | | | • | treatment of the subject of chord analysis and is a very compact method of presenting | 50 |
| | | | | this information throughout the Major keys. | |
| 55 | Slide ri | ght ha | nd segment | This is being explained here as it is the point at which the user may refer to the | 55 |
| | | | | technical names for the Major intervals of scale and also | 60 |
| 60 | | | | identify the minor triads. If used in every key it will also indicate the technical | 33 |
| | | | | name of a particular note as it changes its positional | 65 |
| 65 | i | | | role from key to key. | |

A more elaborate embodiment of the invention is illustrated in Figures 8 and following of the drawings and is hereinafter described. This embodiment comprises a four sided collapsible sleeve E' which contains a four sided collapsible slide S'. The top side of each of the sleeve E' and slide S' is in like manner to its second side formed with a central longitudinal fold line 1A so as to constitute a gusset permitting the device to be 5 5 collapsed when required to a flat condition. Additionally the fourth side has a ledge-forming overlaid member 6 which is adapted to support a secondary slide S2 which is reversible in order to display different information on its respective sides. The construction and information displayed on sides 1, 2 and 3 of the sleeve E' and slide S' is the same as the 3-sided embodiment which has already been described in detail. The fourth side of the sleeve E' relates to the vibration characteristics of pitch, the construction of chords 10 and introduces a new concept for presenting chord references as they relate to the Subdominant, Tonic and Dominant, that is to say the notes appearing in the vertical part of the L-shaped window 5 in side 1. Thus to one side of the fold line on side 4 of the sleeve E' is marked a series of grids. These grids are an extension of the theme of the Subdominant, Tonic and Dominant. Reference has already been made to the 15 three musical notes which appear above each of the large letters on the slide side 1 which appear in the 15 L-shaped window in the sleeve. The grids represent the positions of these groups of musical notes as if they were observed on side 1. The next stage is to present these as individual modifications of the fingerings illustrated separately at the Subdominant, Tonic or Dominant positions. 20 The modifications take the form of 10 of the most frequently required chord formations, the chord indicators being abreviated to the following: s°7 5+ sM7 s9 sm6 sm7 sM s6 **s**7 sm t9 tm6 tm7 t°7 t+ t6 **t**7 tM7 tm tΜ 25 25 dM d°7 d+d9 dm6 dm7 d6 d7 dM7 dm In all there are 30 additional chord formations each of which is capable of inversion in accordance with standard music practise. (On side 1 the 7 small keyboard illustrations give examples of inversions of a chord). The modification of an S or T or D series from the 'L' is indicated by a dot or an inflection mark (sharp or 30 30 flat). What happens simply is that the user will play the musical note which is indicated according to it's presence on the 'L' face and if an inflection is indicated he will adjust the note shown on the 'L' face accordingly. The grids are set on the fourth side in a position which allows the user readily to refer to either set of 35 information. That is between that on side 1 and that on the fourth side. 35 The second section of side 4 is much more complicated to describe but the arrangement is like the hitherto described section positioned so that the user can easily relate between two sides of the sleeve. In this case between the theory on side 2 and the secondary slide S2. As mentioned already, there is a separate rule S2 which is supported on a ledge-forming element attached 40 to the fourth side of the sleeve. The rule is concerned with JUST INTONATION and EQUAL TEMPERAMENT; 40 these are two means of determining pitch within the OCTAVE. Just Intonation is the true division of pitch in western music. The only instruments capable of using this division are those which are variable. e.g. the voice, a slide trombone or similar action instrument and an unfretted stringed instrument such as the violin. There was prior to the adoption of Equal temperament tuning a tuning known as Mean Tone but this has not 45 45 been provided for on the outer faces as this form of tuning is not in general use. It is however of academic interest is so far as it was the accepted basis of music from the 16th century until the early part of the present Equal Temperament is the standard tuning adopted today as a result of the introduction of the fixed tuning brought about by the invention of the planoforte and more recently required by fretted instruments like the 50 50 guitar. E.T. is a compromise which takes advantage of the inability of the ear (in the case of the majority of people) to instantaneously recognise accurately the difference in pitch between two notes. (In fact it would be a clever person that would be capable of distinguishing the difference in tuning between two planos). E.T. Moves the 2nd, 3rd, 6th and 7th interval slightly to accommodate the 5 pitches (the black notes) which in turn serve to accommodate two pitches (those with inflections in the J.T. scale) from the just tone scale. The 55 55 result being that by this method music can modulate freely through the 15 keys in the Major Scales (EQUALLY) Hence the title. Scale A1 & 2 on the main device and Scales Aa3 & 4 on the separate slide deal with the Equal temperament Cc on the main device and Cc on the separate rule are the logarithmic scales available for direct reading of 60 vibration values on A1 to Aa 4 or as a multiplying and dividing agent for determining the higher and lower 60 octave values of pitches illustrated. 'D' lists the individual vibration values of pitches illustrated on the equal

temperament scale.



| - GB 2 000 041 | | |
|-----------------------|--|------|
| | | |
| aA2 | in colour this scale is set out in major | |
| | and minor thirds also the first octave begins | |
| | Major minor Major the second octave begins | |
| | Major minor. | 5 |
| 5 Underlined Scale | Aa 1 C - G perfect Fifth A - E | • |
| | perfect Fifth Gb - Cb perfect Fourth | |
| Underlined Scale | e Aa F - C perfect Fifth D - A | |
| II. down and Cond. | perfect Fifth | |
| | e A 1 C - F perfect Fourth A - D perfect Fourth E - B perfect Fifth | 10 |
| 10 | e A2 C - C perfect Fourth E - A | |
| Underlined Scale | perfect Fourth | |
| Distonic Interval | s. These are marked I - VIII in first | |
| Digitaline litter var | octave and VIII - 15 in second octave. | |
| 15 Using these Scal | les. Aa1 can be read against A1 | 15 |
| 15 Carrig those Cour | with the rule in carrying position. Aa1 & Aa2 can be read against A1 & A2 by setting rule in | |
| | the base of the gusset The object of the patches is that any combination can be built up at | |
| | any point to determine what construction a chord is composed of OR to compose a chord | |
| | having been given its component parts i.e. m3 - M3 - P5 etc. This simplifies the | |
| 20 | understanding of chord construction speeds up recognition and is quite entertaining. | 20 |
| Scales B1 - B2 & | Bb1 - Bb2 deal with the Just Intonation Pitches. | |
| There is only o | one octave of scale illustrated simply because as previously mentioned Just Intonation is the | |
| Pure division of t | the octave though for practical reasons it has been necessary to adopt a compromise scale | • |
| which we know a | as Equal temperament. | 25 |
| 25 The Just Inton | ation Pitches allow up to apply the correct Technical Names to the pitches within the octave | 25 |
| and this has bee | n done under 'F'. There is no separate related rule (scale) for the J.l. series but the vibration bitch in the octave are given. If the user has any call to calculate then at this stage of his | |
| values for each p | dge he will be able to work on the Logarithmic Scales provided at 'Co' 100 - 600. | |
| musical knowled | vorks along the base of the gusset and the main purpose of this slide action is to examine | |
| The Bb scale v | the limitations which J.I. presents as a result of movement in the settings between one pitch | · 30 |
| 30 and to illustrate | erms of major keys. At different settings it is not possible to align each pitch of the octave and | |
| and another in te | ne conflict which results in discords or mismatches. | |
| this illustrates to | les for the pitches illustrated on the J.l. scale are given under 'E'. | |
| Vibration valu | 165 TOT THE PITCHES MARKET STATE STA | |
| 35 | | 35 |
| B1 | in colour this scale shows Major Third | |
| | (Orange) minor third (blank) | |
| | Perfect Fourth (Orange) | |
| | | 40 |
| 40 B2 | shows minor third (yellow) Perfect | 40 |
| | Fifth (Orange) | |
| | | |
| Bb1 | shows Perfect Fifth (Orange) | |
| | minor third (yellow) | 45 |
| 45 | the same Bouleast Farrest (Oranga) | |
| Bb2 | shows Perfect Fourth (Orange) | |
| | Imperfect Major Third (Orange) | |
| | | |
| 50 | | 50 |
| The 4-sided er | mbodiment which has been described can, for ease of observation, readily be folded into | |
| different positio | ons which are illustrated in Figures 13A to 13F inclusive. Thus Figures 13A, 13C, 13D and 13E | |
| show the device | supported on a horizontal surface in various configurations, whilst Figure 13B shows the | |
| device supporte | ed partly by a horizontal surface and partly by a vertical surface at a corner of a piece of | |
| 55 furniture. Finally | y, Figure 13F shows the device supported in an inclined position on a music stand. | 55 |
| In its widest a | spect the invention provides an instructional device of the slide rule type which has the | |
| facility of displa | ying a large amount of information in a particularly compact and convenient manner. | |
| Moreoever the f | feature of collapsibility means that the device can suitably be made of relatively cheap | |
| material. When | embodied as a device for musical instruction it is believed that it enables a greater variety of | |
| 60 information to b | pe presented in a comprehensive, convenient and compact manner than has ever heretofore | 60 |
| been possible. | | |
| Other applica | tions of the instructional device could be utilised for the presentation of useful information in | |
| | ences. For instance in photography the three sides of a device could be concerned with | |
| camera apertur | es, speeds and camera-to-subject distances respectively. | 65 |
| 65 Other fields o | f application could be holography - colour and distance combinations - market research, | 03 |



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finance and so forth where different parameters have to be reconsidered or studied in relation to one another.

CLAIMS

- 1. An instructional device of the type defined characterised in that each of the open-ended enclosure and the slide therein is a collapsible structure having at least three sides one or more of such sides of the open-ended enclosure having at least one window through which information carried on the slide is selectively displayed depending upon the position of longitudinal adjustment of the slide relative to the open-ended enclosure.
 - 2. An instructional device as claimed in claim 1 in which the enclosure and the slide are three-sided and one of the sides of the enclosure and of the slide is adapted to fold longitudinally in the manner of a gusset to enable the structure as a whole to be collapsed into a substantially flat condition.
- An instructional device as claimed in claim 1 in which the enclosure and the slide are four-sided and
 two opposite sides of the enclosure and of the slide are adapted to fold longitudinally in the manner of a gusset to enable the structure as a whole to be collapsed into a substantially flat condition.
 - 4. An instructional device as claimed in any of claims 1 to 3 wherein the slide has at least one wing-like extension directed internally of the structure.
- 5. An instructional device as claimed in any of claims 1 to 4 wherein one side of the enclosure is provided 20 with a ledge forming member which supports, or is adapted to support a secondary slide.
- 6. An instructional device as claimed in any of claims 1 to 5 for teaching music and characterised in that one side of the enclosure has an L-shaped window for exposing information relating to musical chords carried on the slide.
- 7. A music instructional device as claimed in claim 6 characterised in that one side of the enclosure has 25 two parallel windows for exposing keyboard information carried on the slide.
 - 8. A music instructional device as claimed in claim 6 or claim 7 characterised in that one side of the enclosure has a window extending transversely thereof for exposing keyboard information carried on the slide.
- suge.
 A music instructional device substantially as hereinbefore described with reference to, and as shown
 in, Figures 1 to 7 or Figures 8 to 13F of the accompanying drawings.